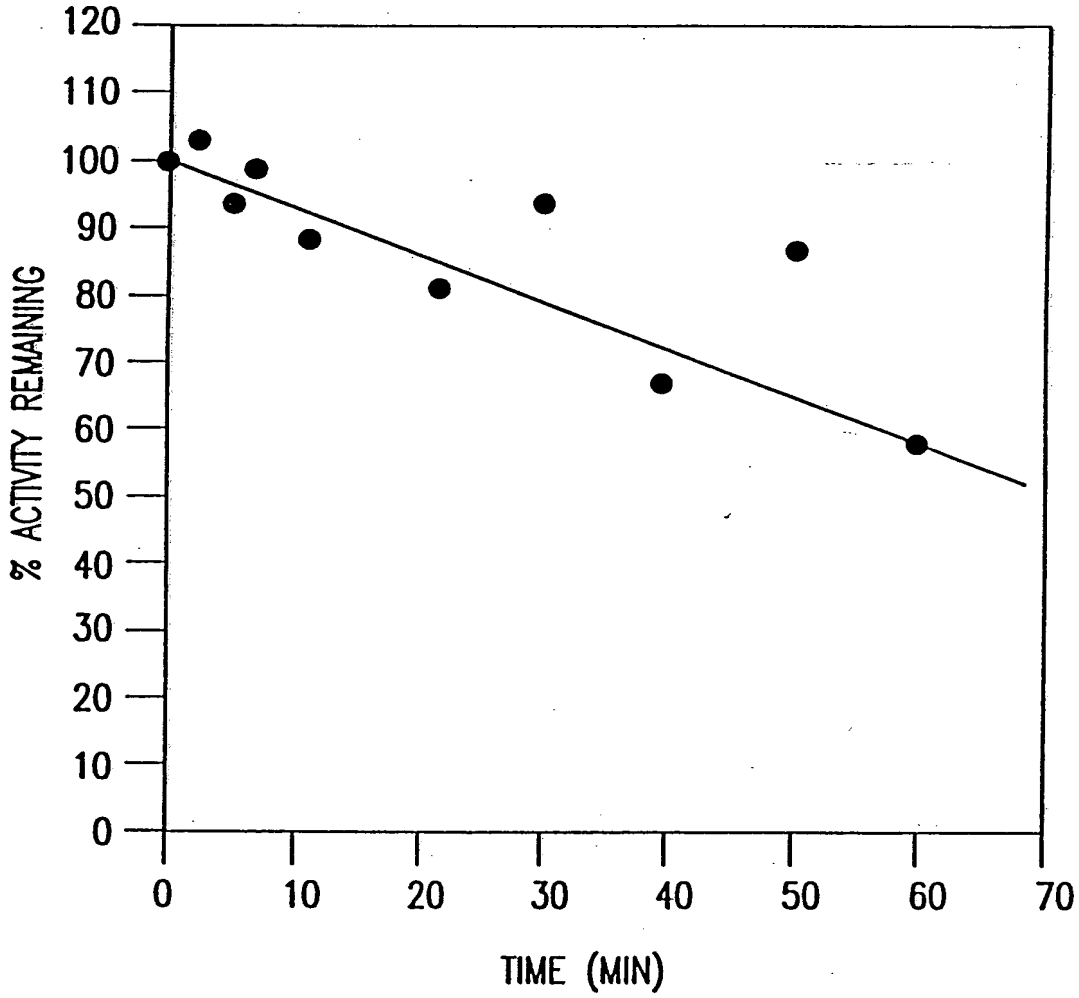


FIG. 1

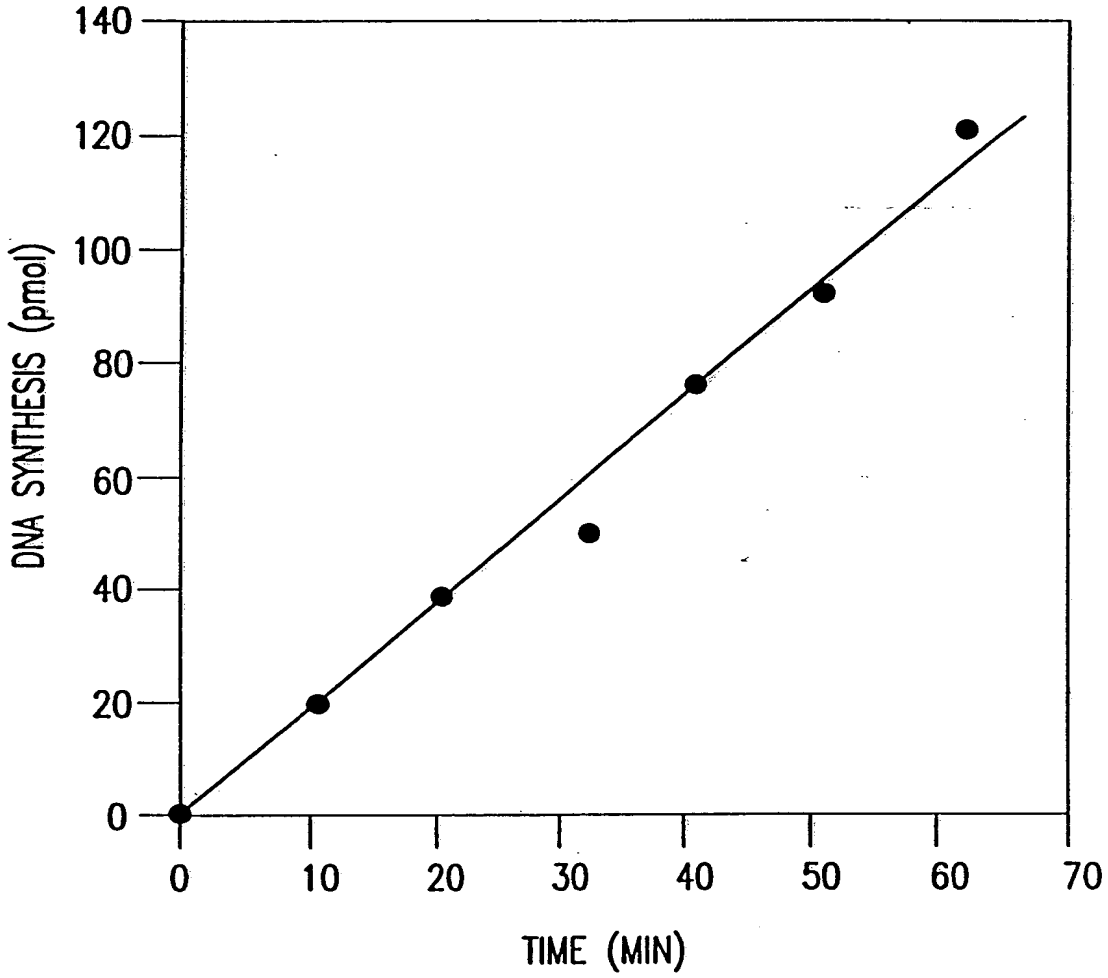


FIG.2

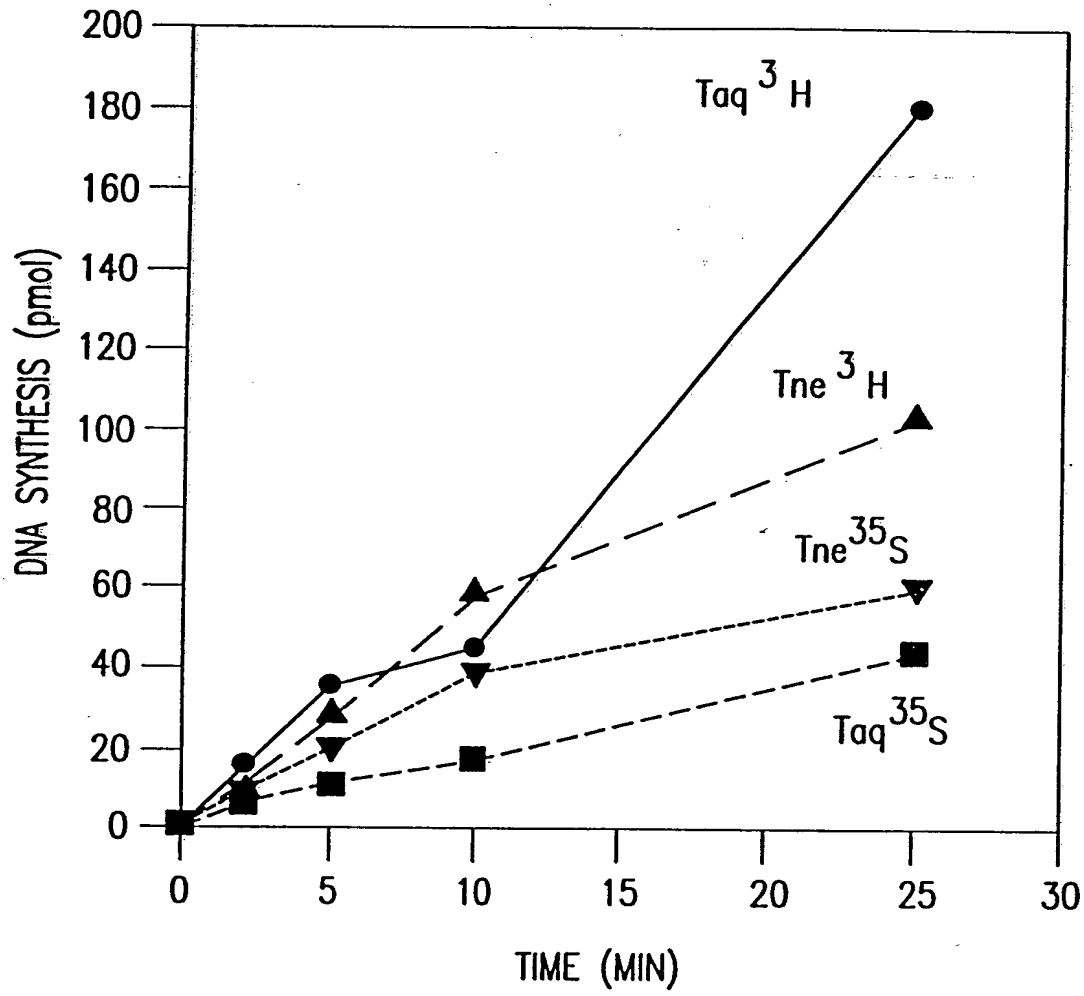


FIG.3

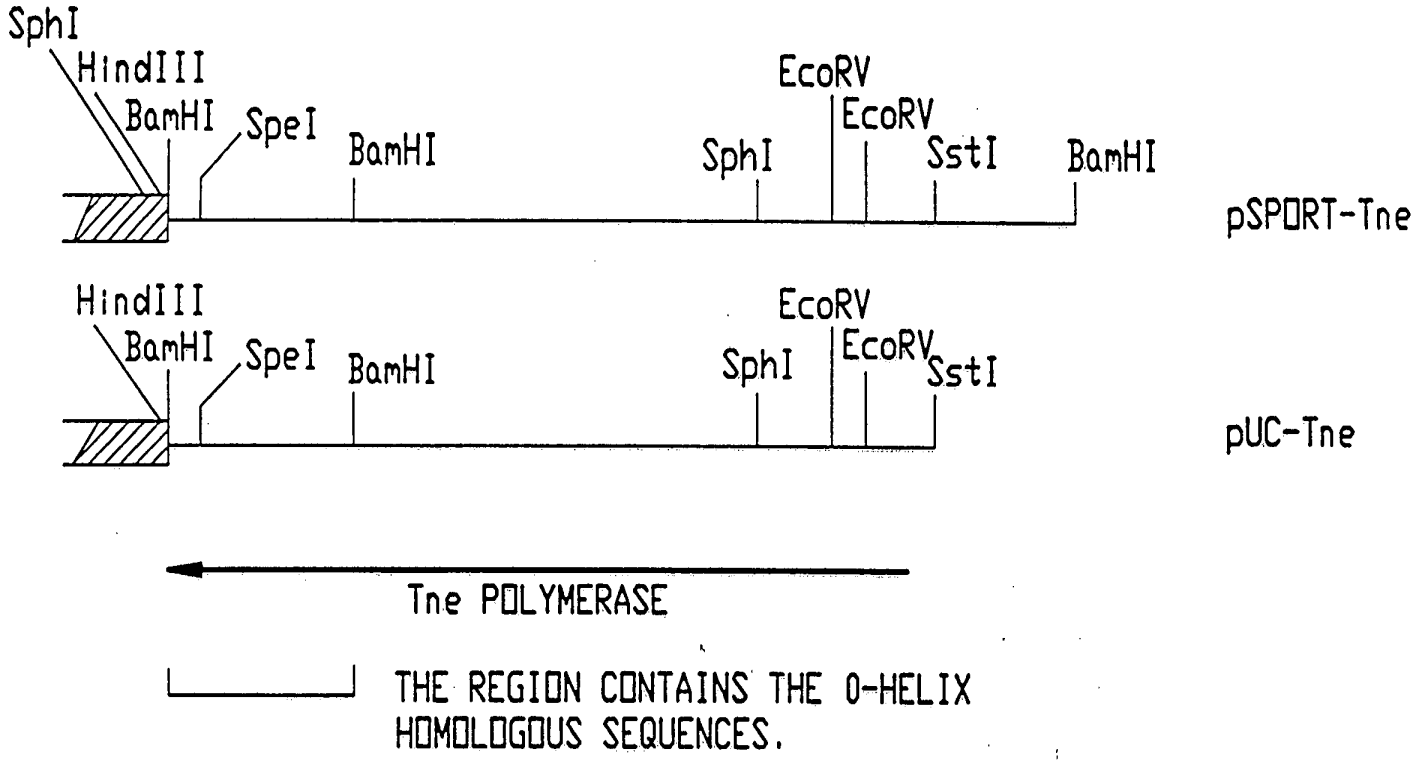


FIG.4

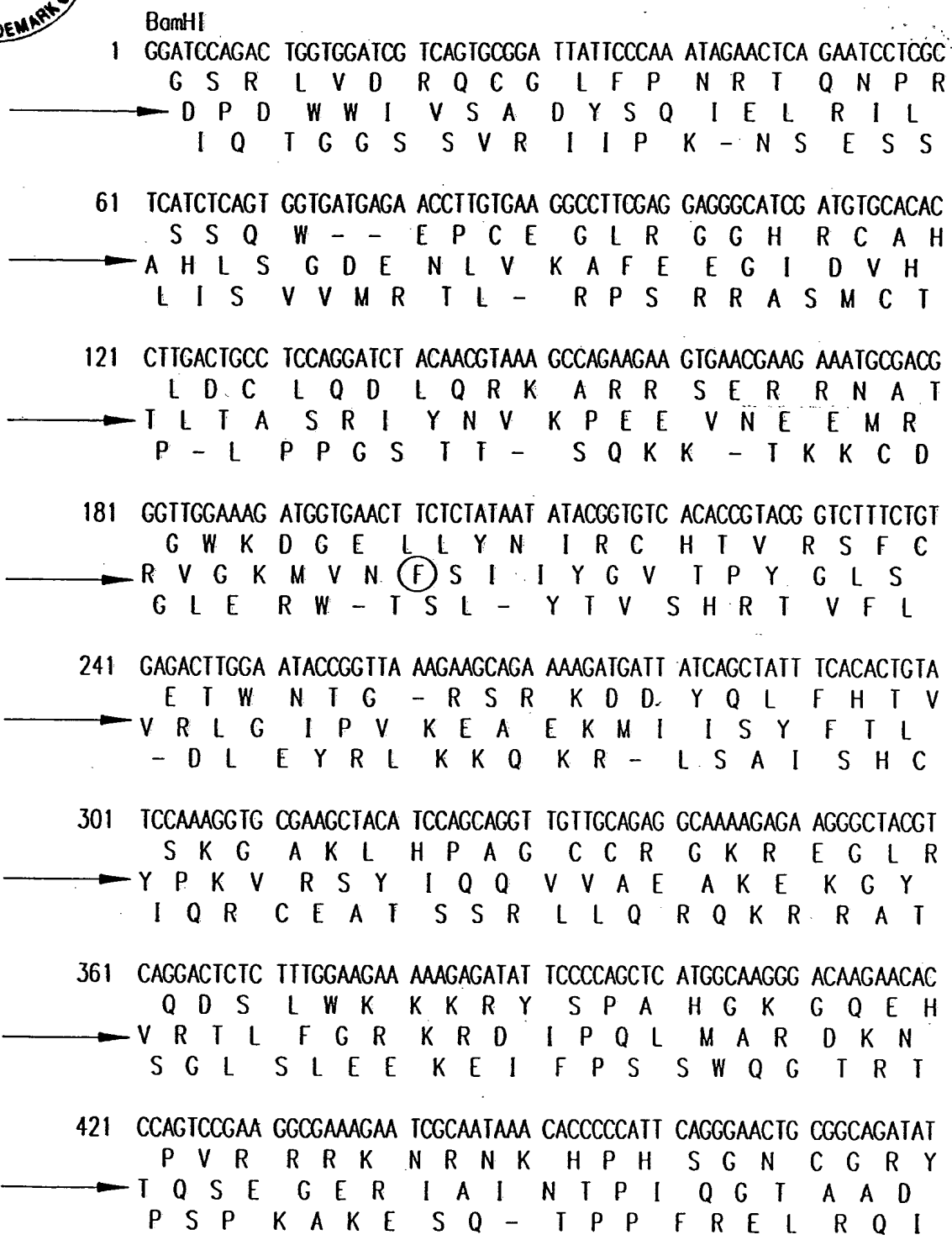


FIG.5A

```
481  AATAAAATTG GCTATGATAG ATATAGACGA GGAGCTGAGA AAAAGAAACA TGAAATCCAG
       N  K  I  G  Y  D  R  Y  R  R  G  A  E  K  K  K  H  E  I  Q
     I  I  K  L  A  M  I  D  I  D  E  E  L  R  K  R  N  M  K  S
       -  -  N  W  L  -  -  I  -  T  R  S  -  E  K  E  T  -  N  P

541  AATGATCATT CAGGTTCATG ACGAACTGGT CTTCGAGGTT CCCGATGAGG AAAAAGAAGA
       N  D  H  S  G  S  -  R  T  G  L  R  G  S  R  -  G  K  R  R
     R  M  I  I  Q  V  H  D  E  L  V  F  E  V  P  D  E  E  K  E
       E  -  S  F  R  F  M  T  N  W  S  S  R  F  P  M  R  K  K  K

601  ACTAGTTGAT CTGGTGAAGA ACAAAATGAC AAATGTGGTG AAACTCTCTG TGCCTCTTGA
       T  S  -  S  G  E  E  Q  N  D  K  C  G  E  T  L  C  A  S  -
     E  L  V  D  L  V  K  N  K  M  T  N  V  V  K  L  S  V  P  L
       N  -  L  I  W  -  R  T  K  -  Q  M  W  -  N  S  L  C  L  L

661  CGTTGACATA AGCATCGGAA AAAGCTGGTC TTGA
       G  -  H  K  H  R  K  K  L  V  L
     E  V  D  I  S  I  G  K  S  W  S  -
       R  L  T  -  A  S  E  K  A  G  L
```

FIG.5B

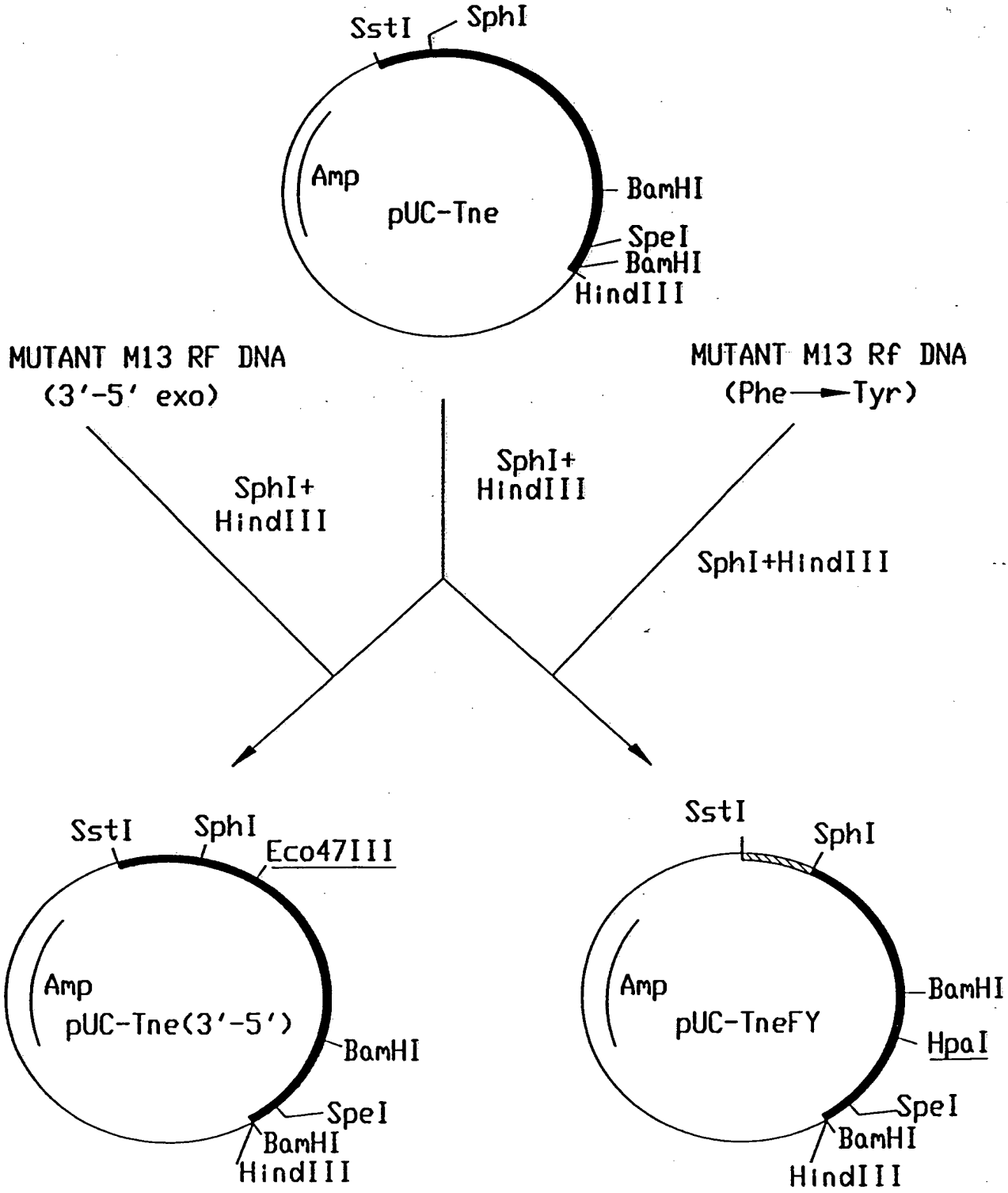


FIG.6A

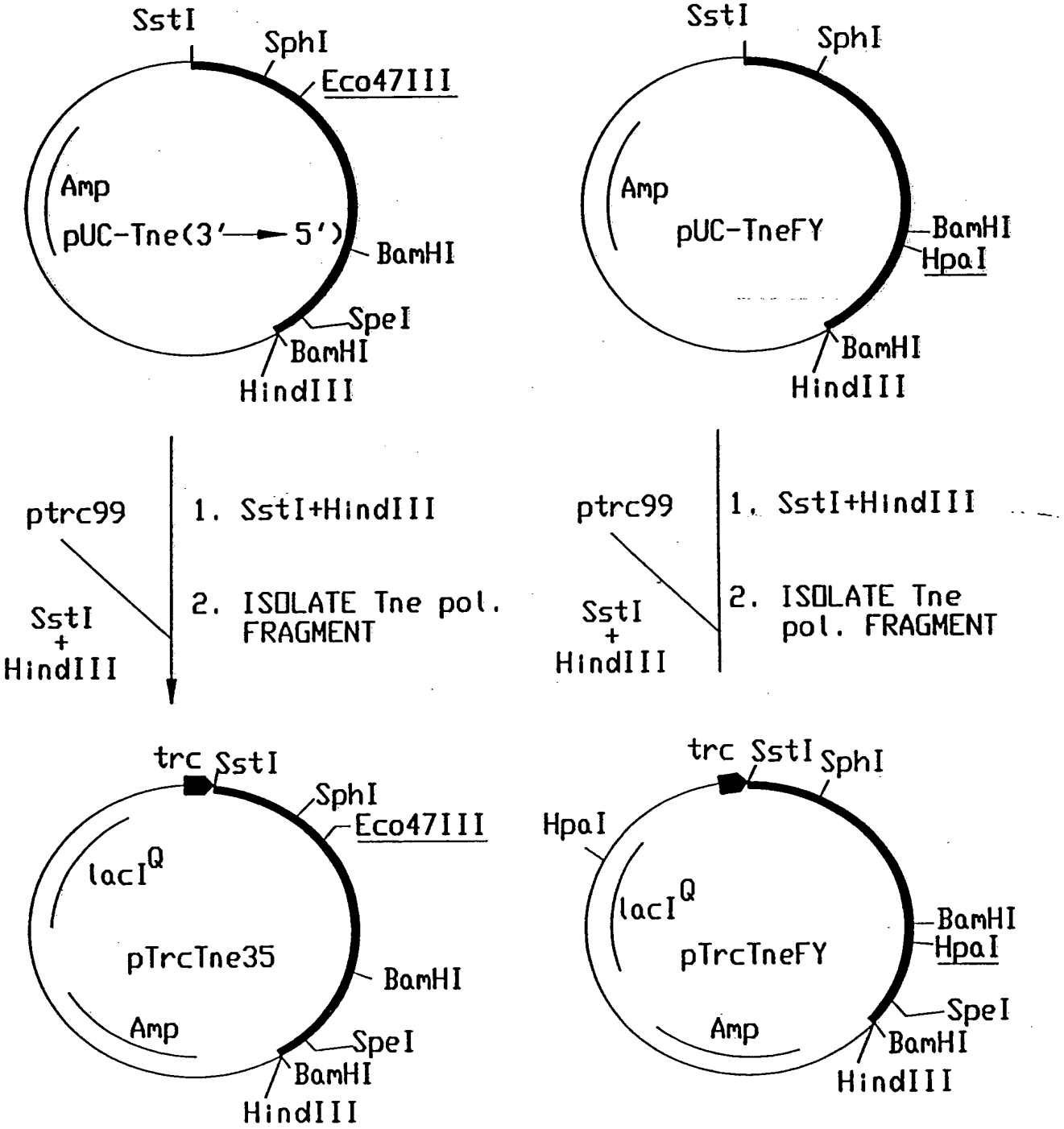


FIG.6B

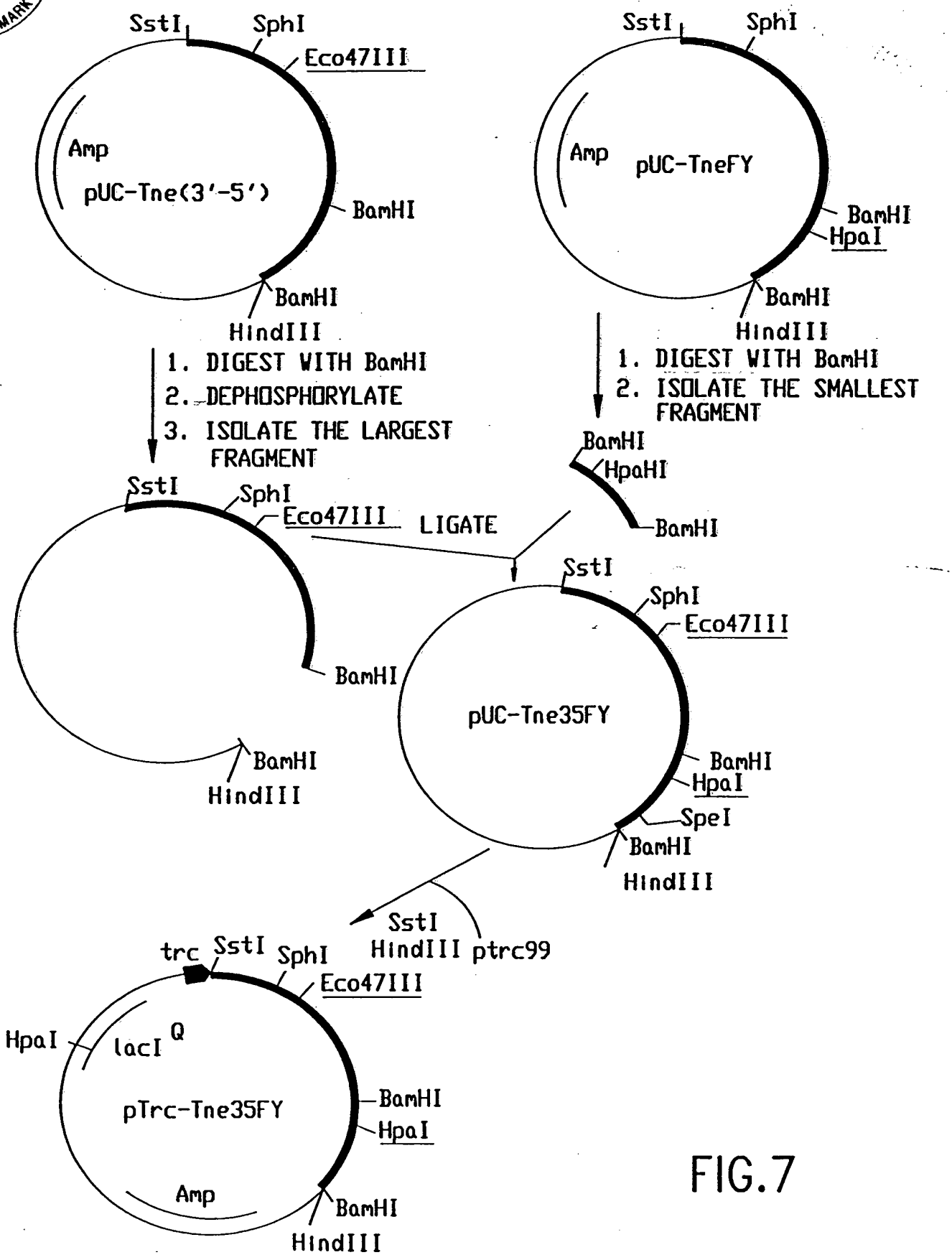
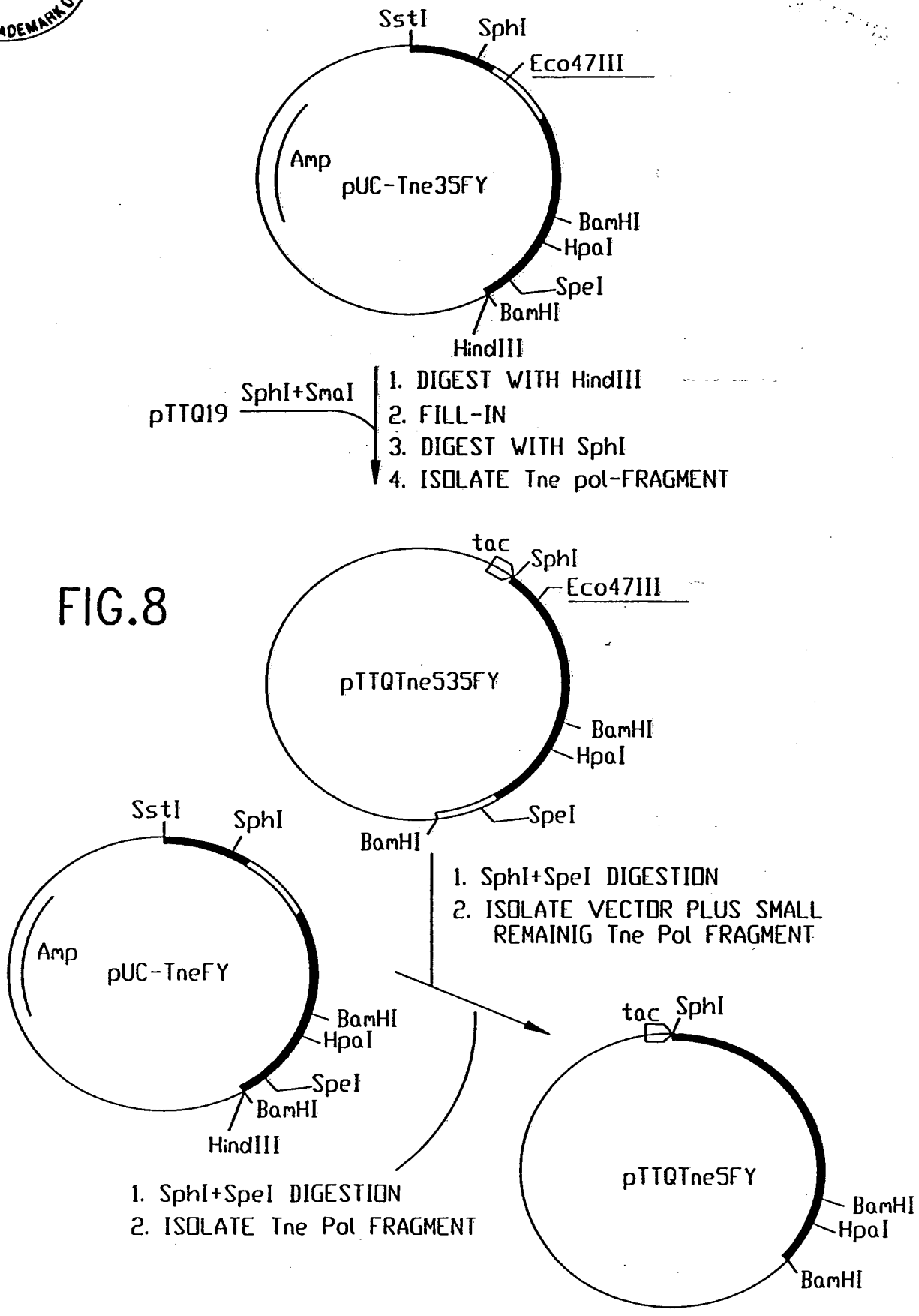


FIG.7

FIG.8



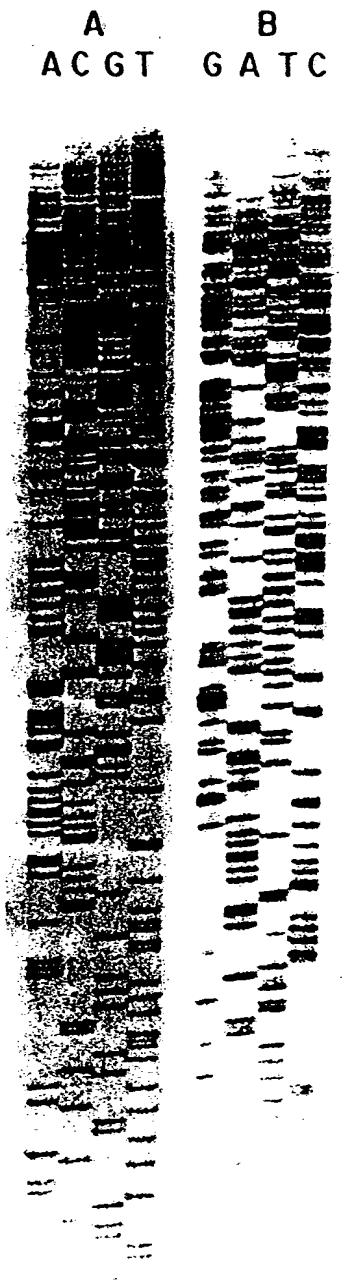


FIG.9

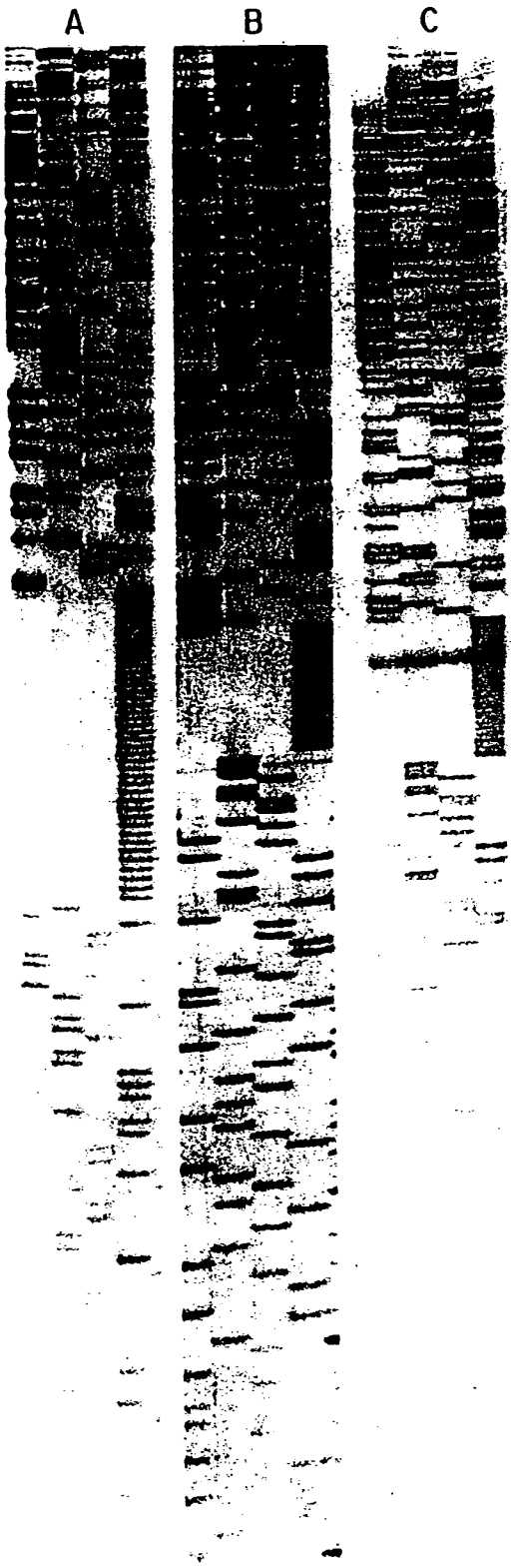


FIG.10

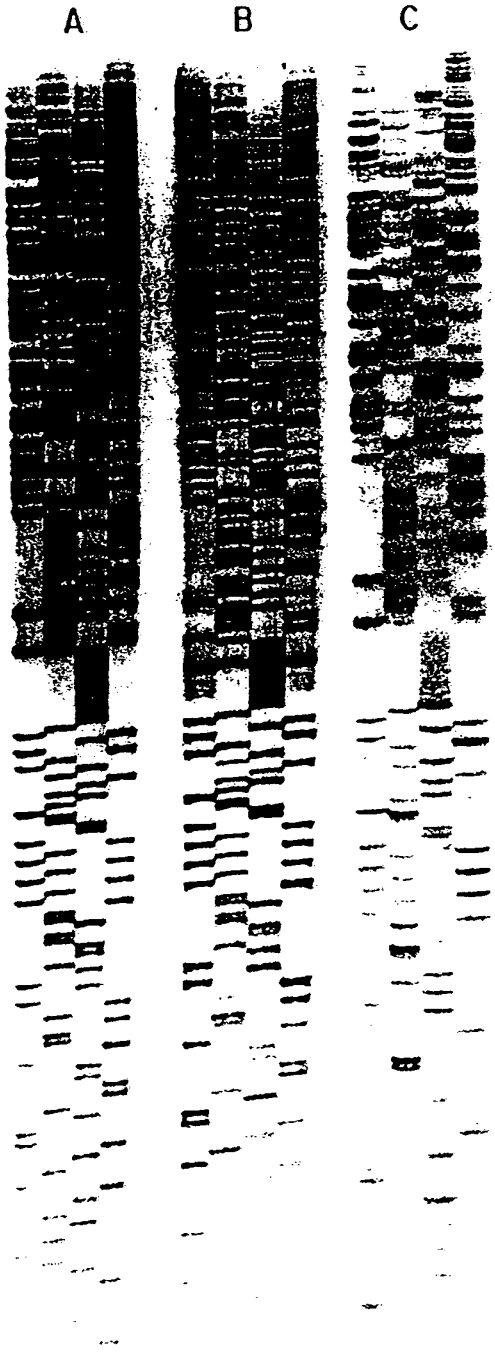


FIG.11

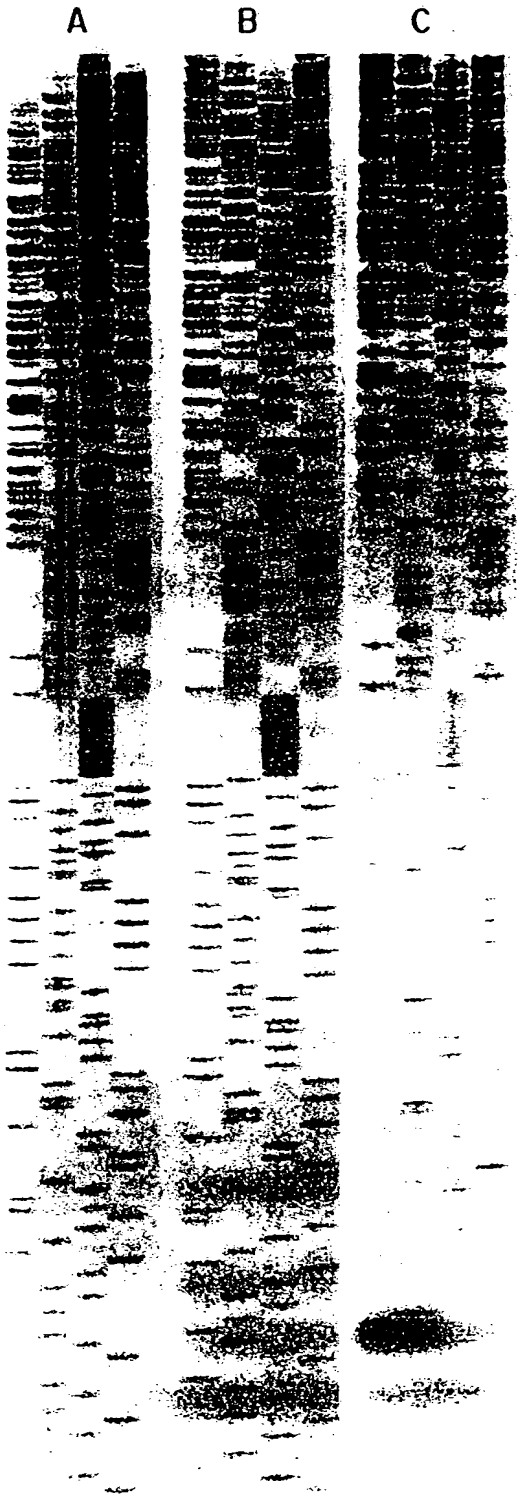


FIG. 12

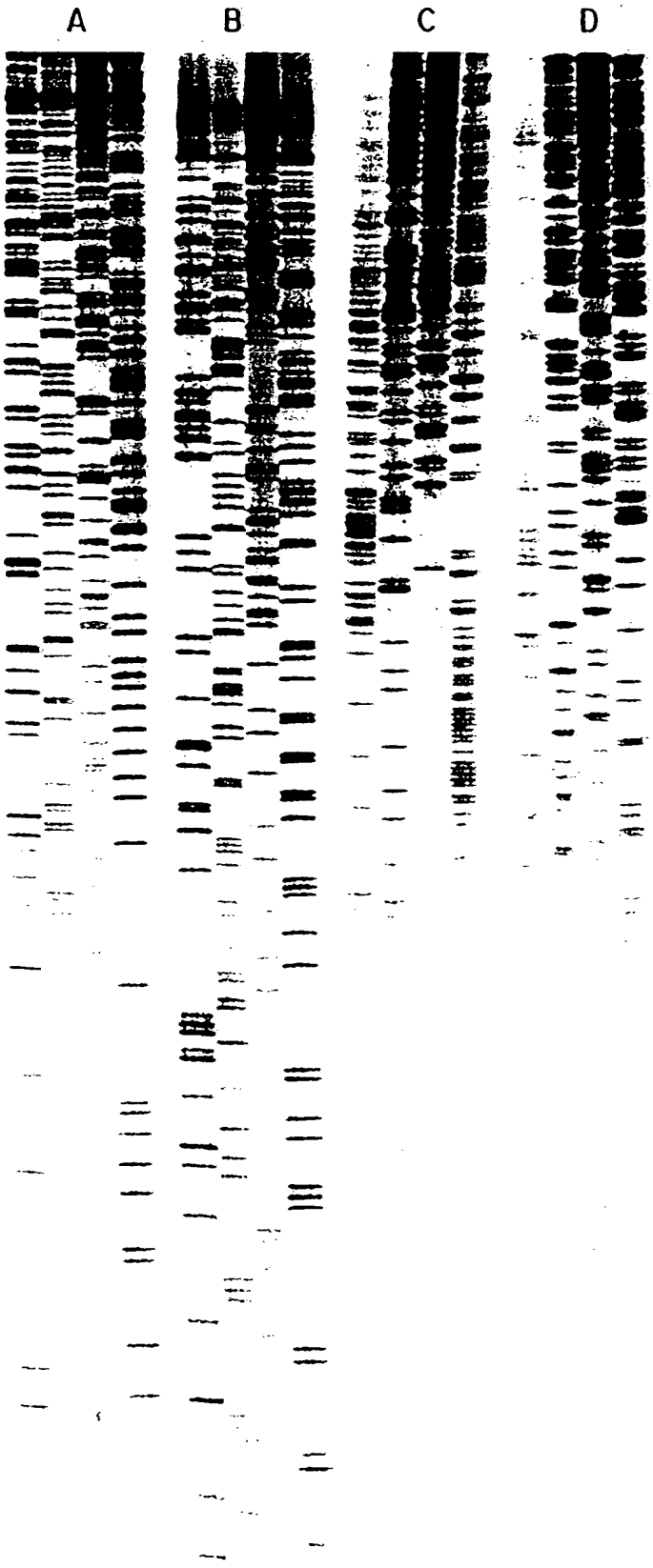


FIG.13

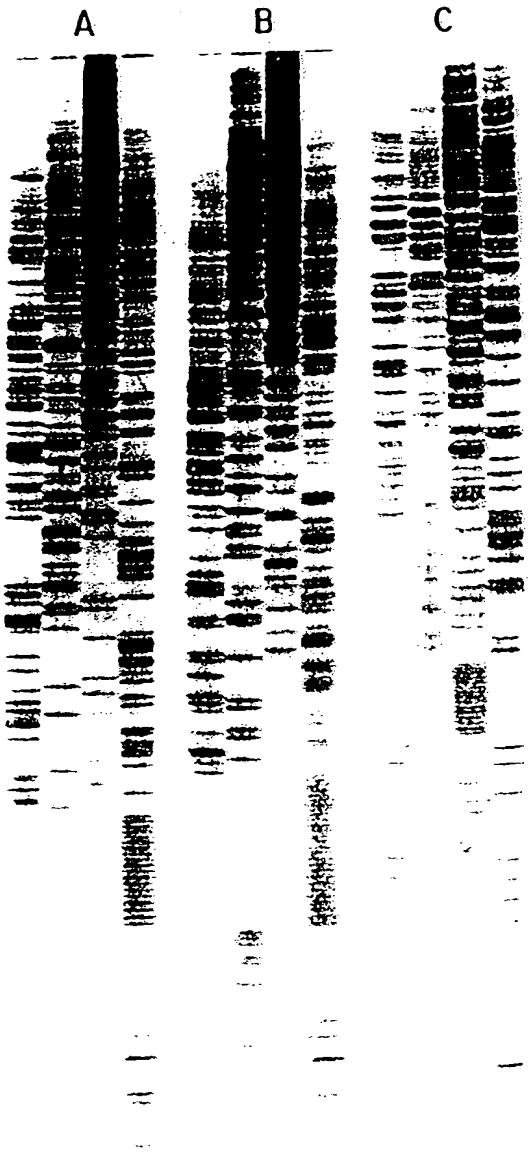


FIG.14A

FIG.14B

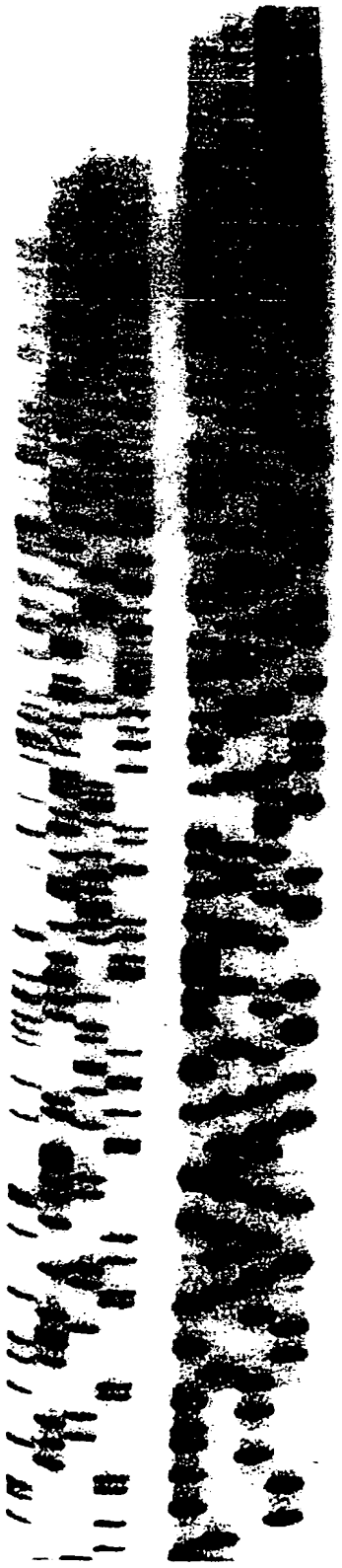


FIG.15

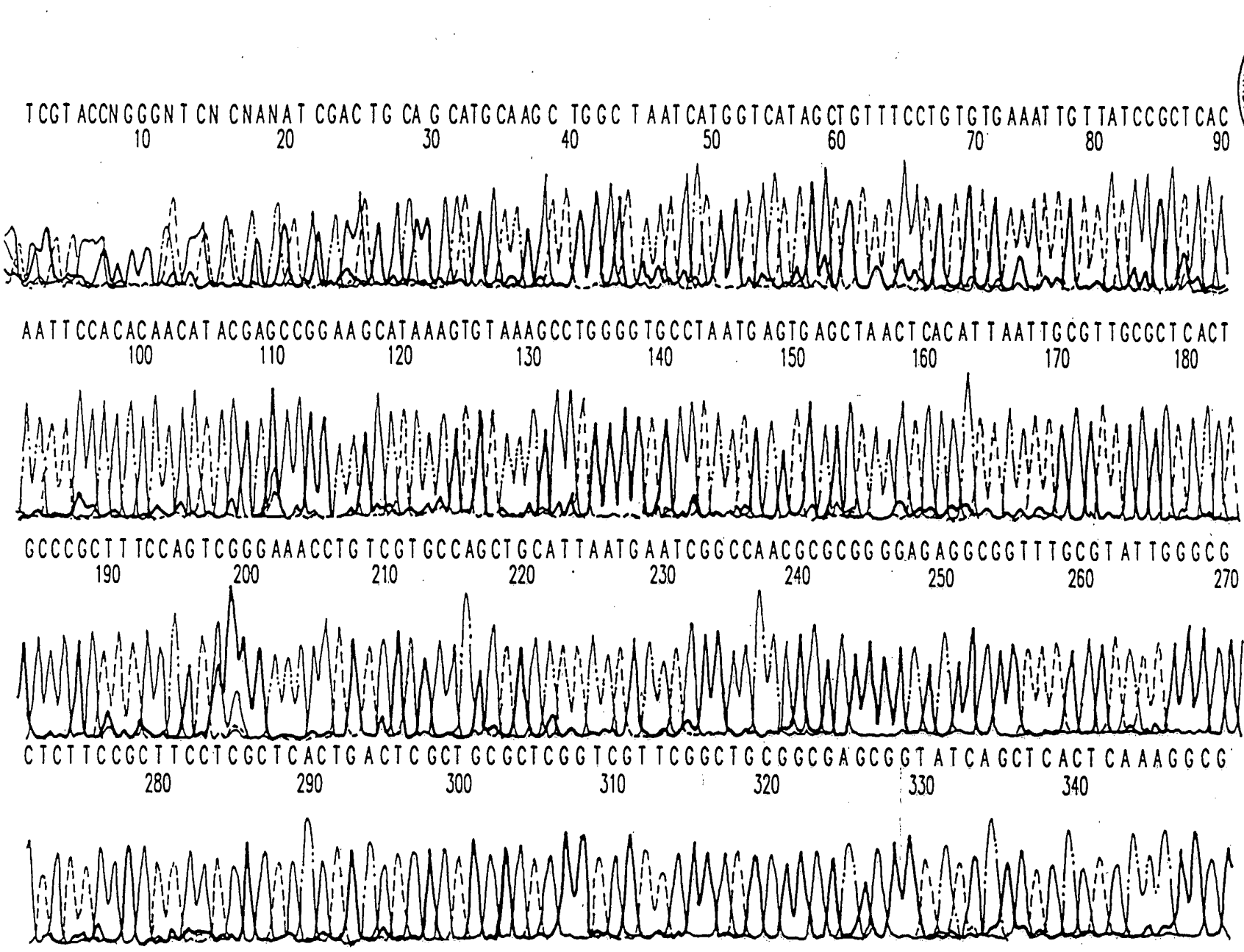


FIG.16A

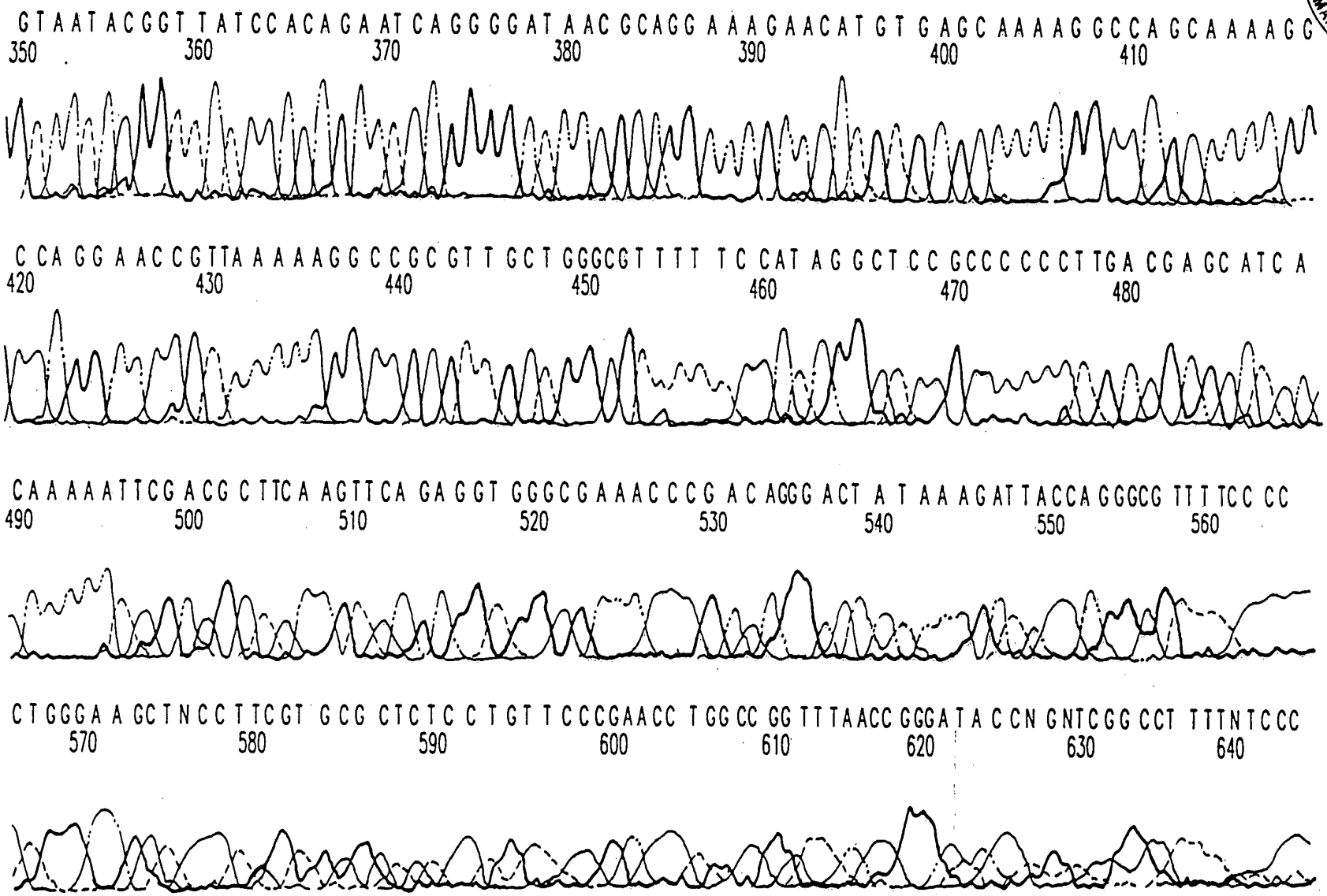


FIG.16B

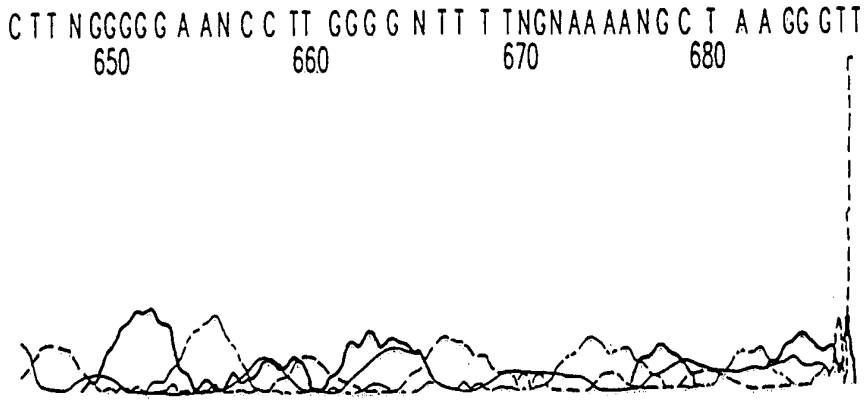


FIG.16C

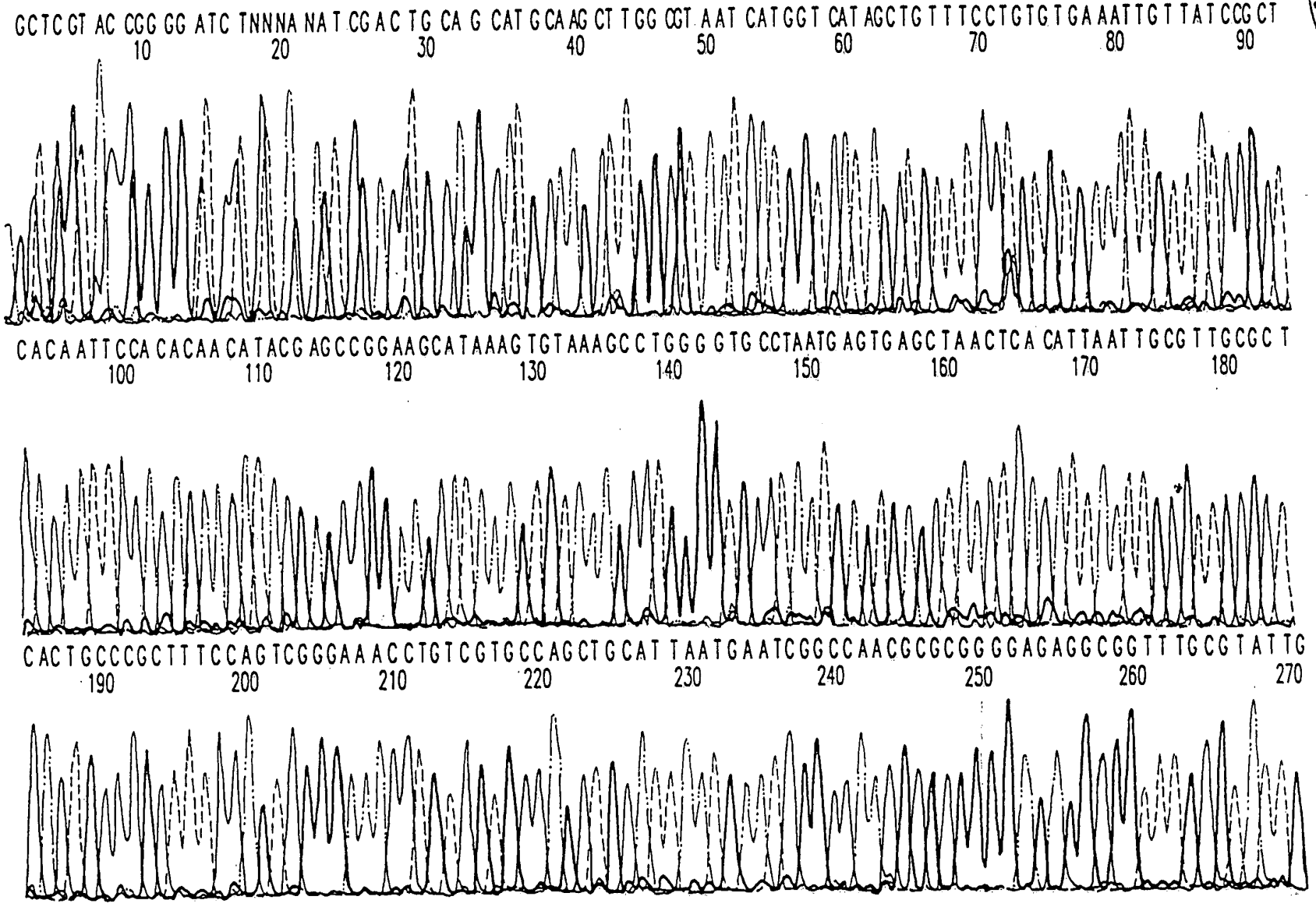


FIG.16D

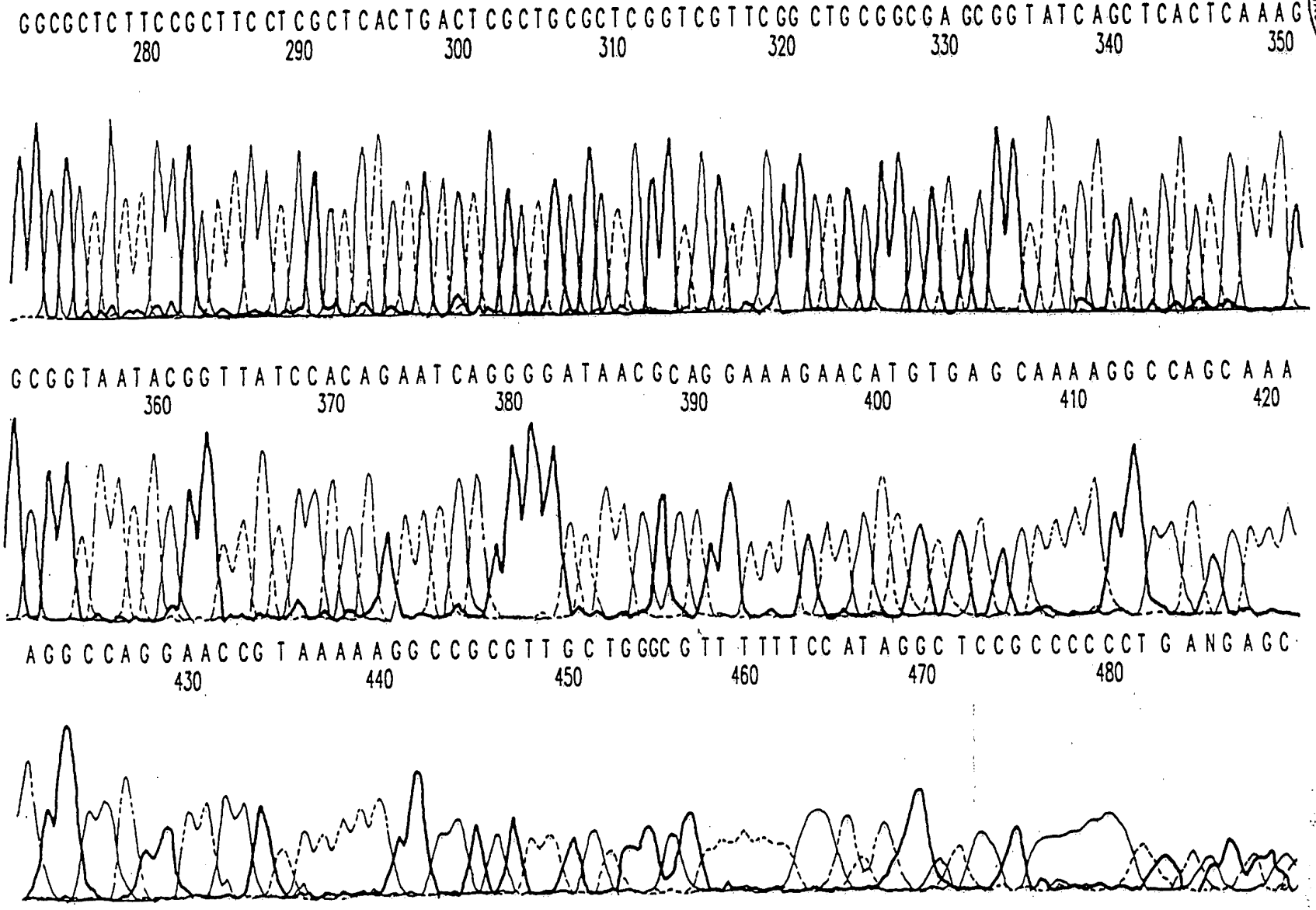
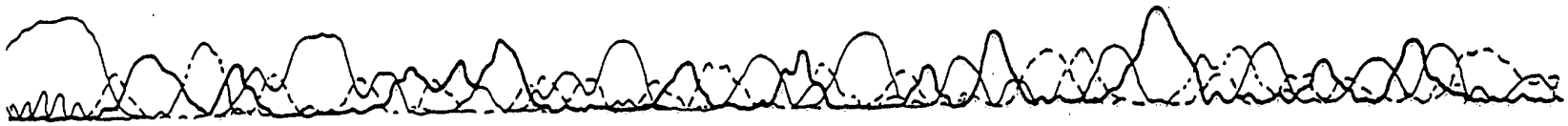


FIG.16E

A T C A N A A AAAT C G A N G C T C A N G T C A N A G G T G G C G A A A C C C G A C A G G N C T ATT AAAAG A T N C C C A G G C G T T T T
490 500 510 520 530 540 550 560

C C C C C C T G G G A A G C T C C C T C G T G G G C T C T C C T G G T T N C G G N N C C C T G N C C G G N T T A C C G G G G A T A A N C T T G T T C C G G N C T T T N T
570 580 590 600 610 620 630 640



C C C C T T C N G G G A A A A N G G T G G G G G G T T T T N T N N A A A A G G C T C A A A G G C T G G T A N G
650 660 670 680 690 700

FIG.16F

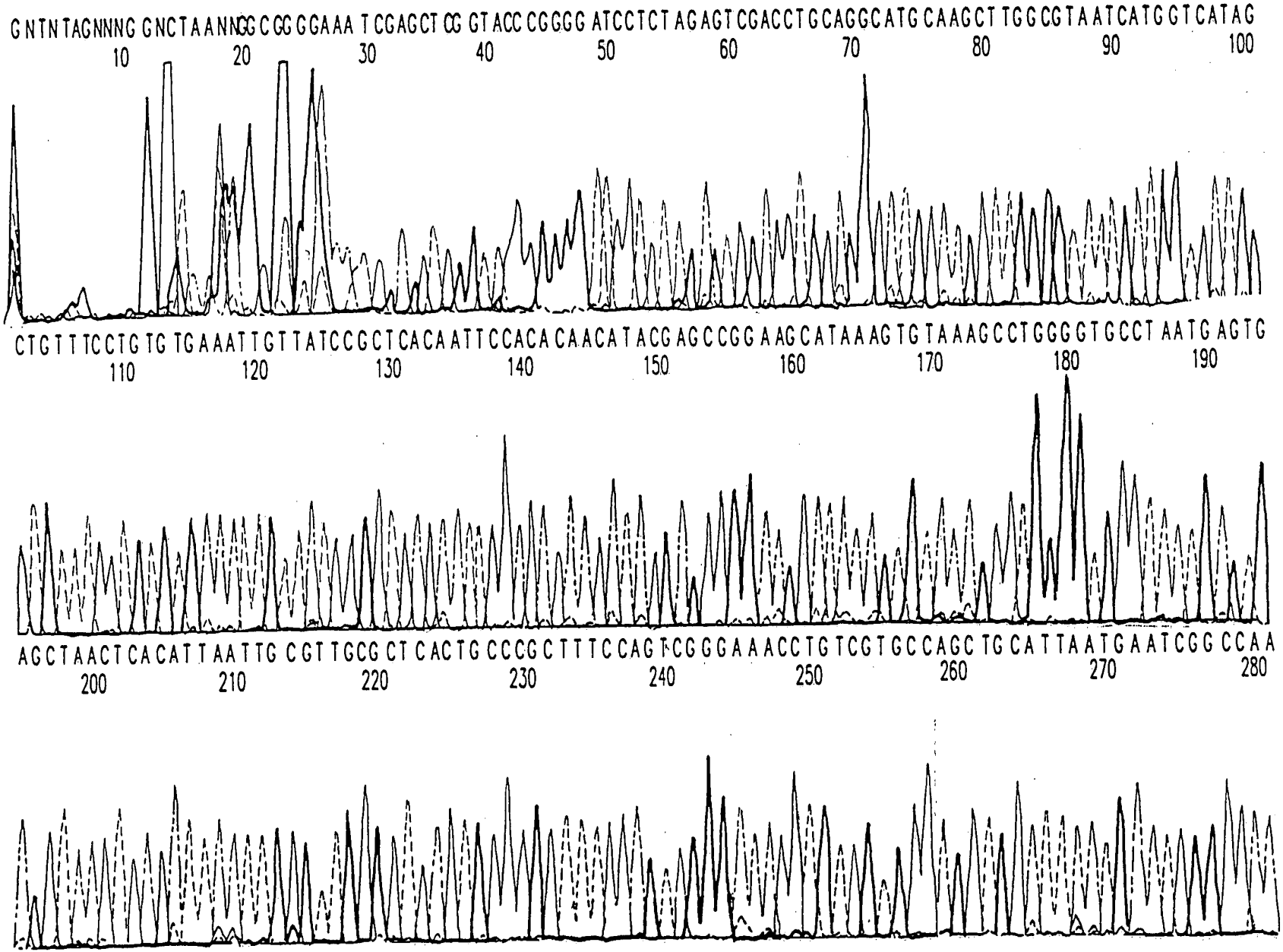


FIG.17A

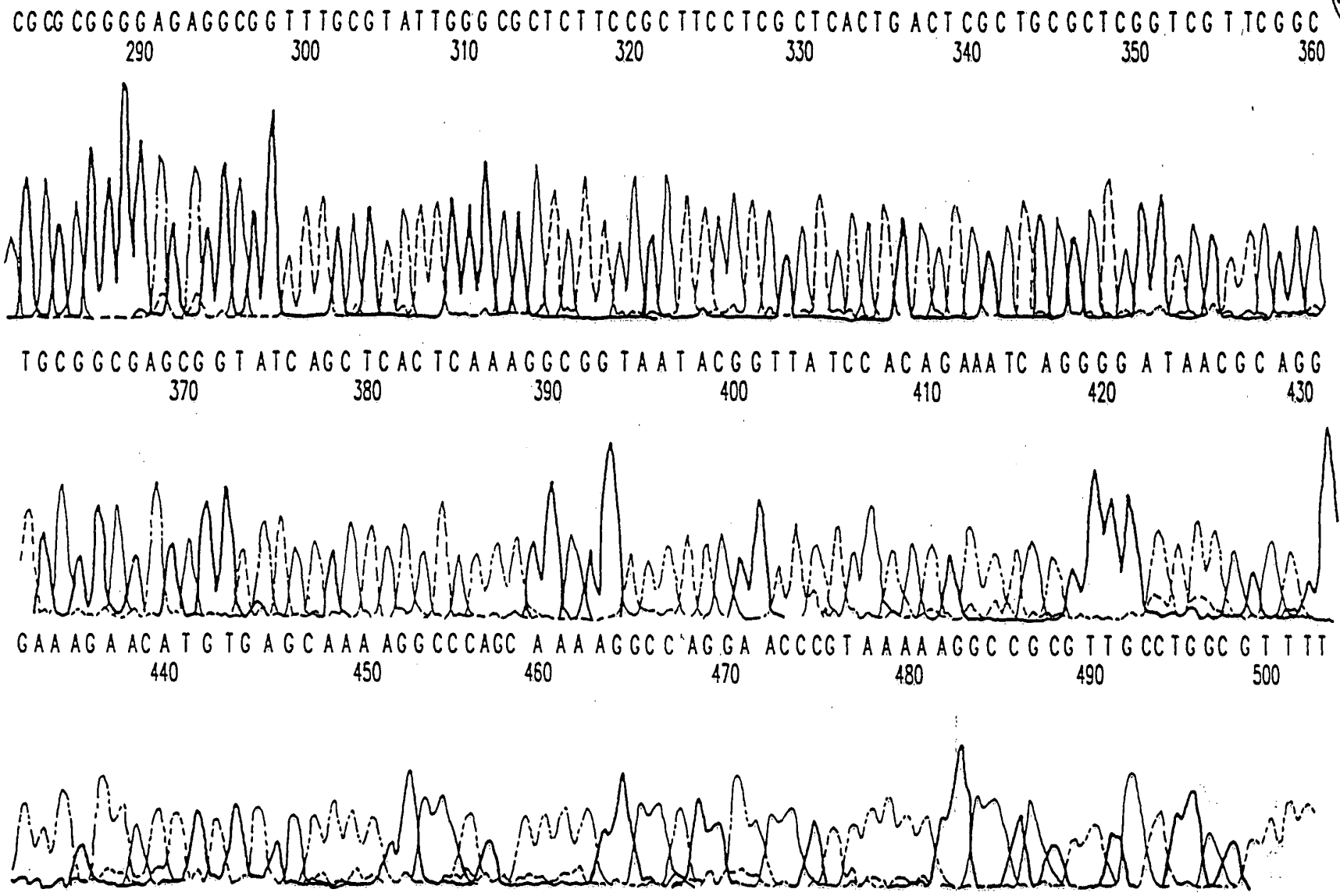


FIG.17B

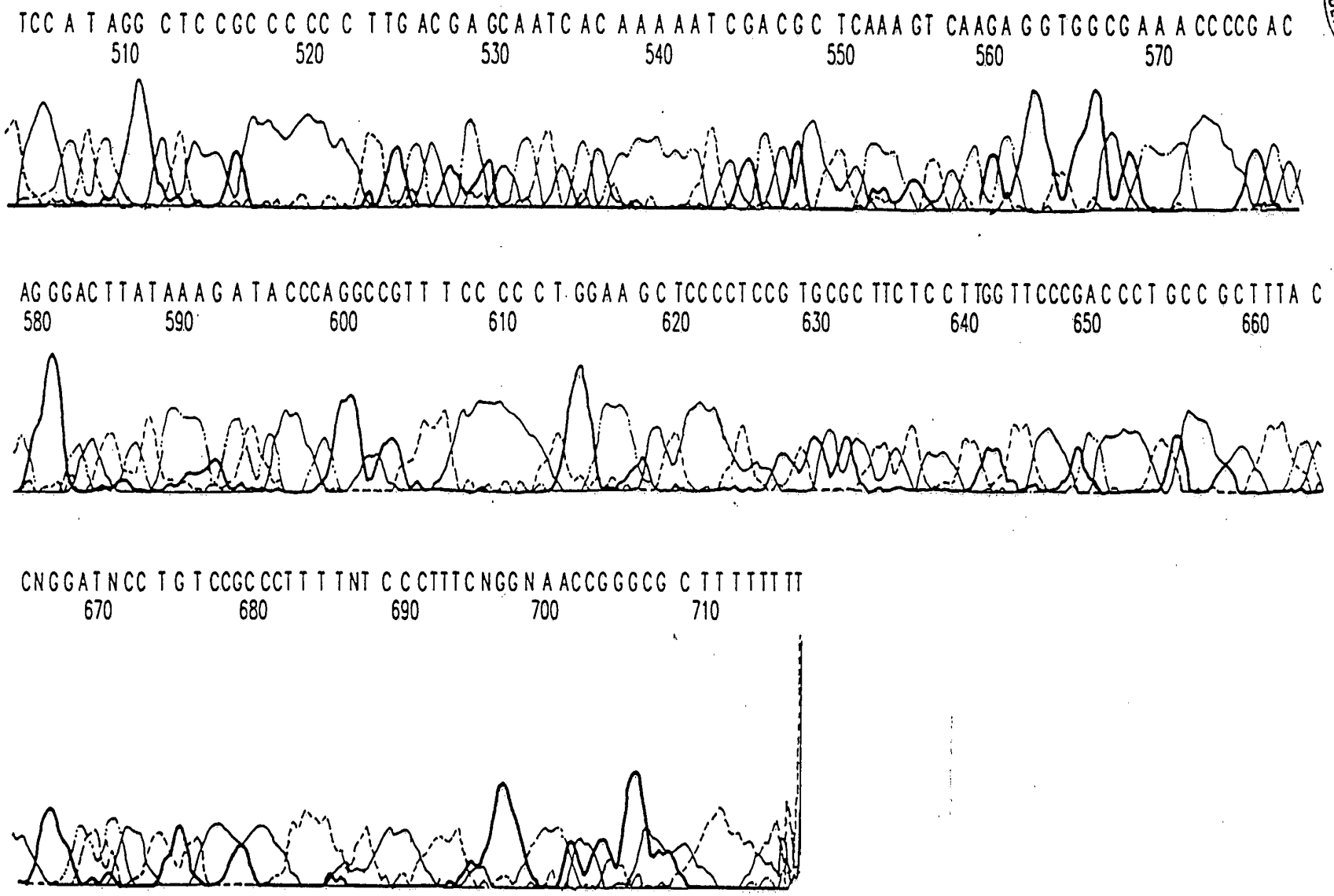


FIG.17C

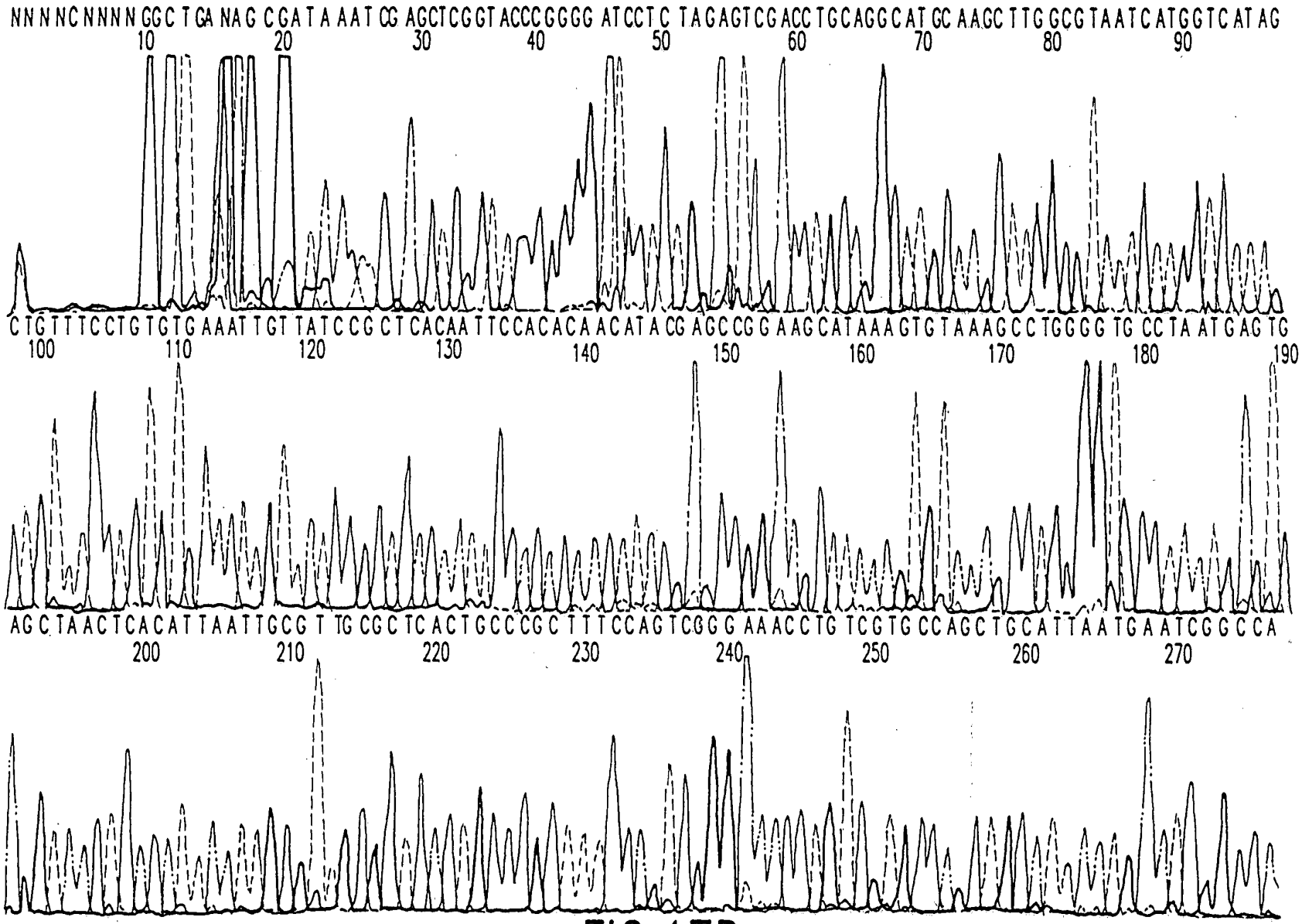


FIG.17D

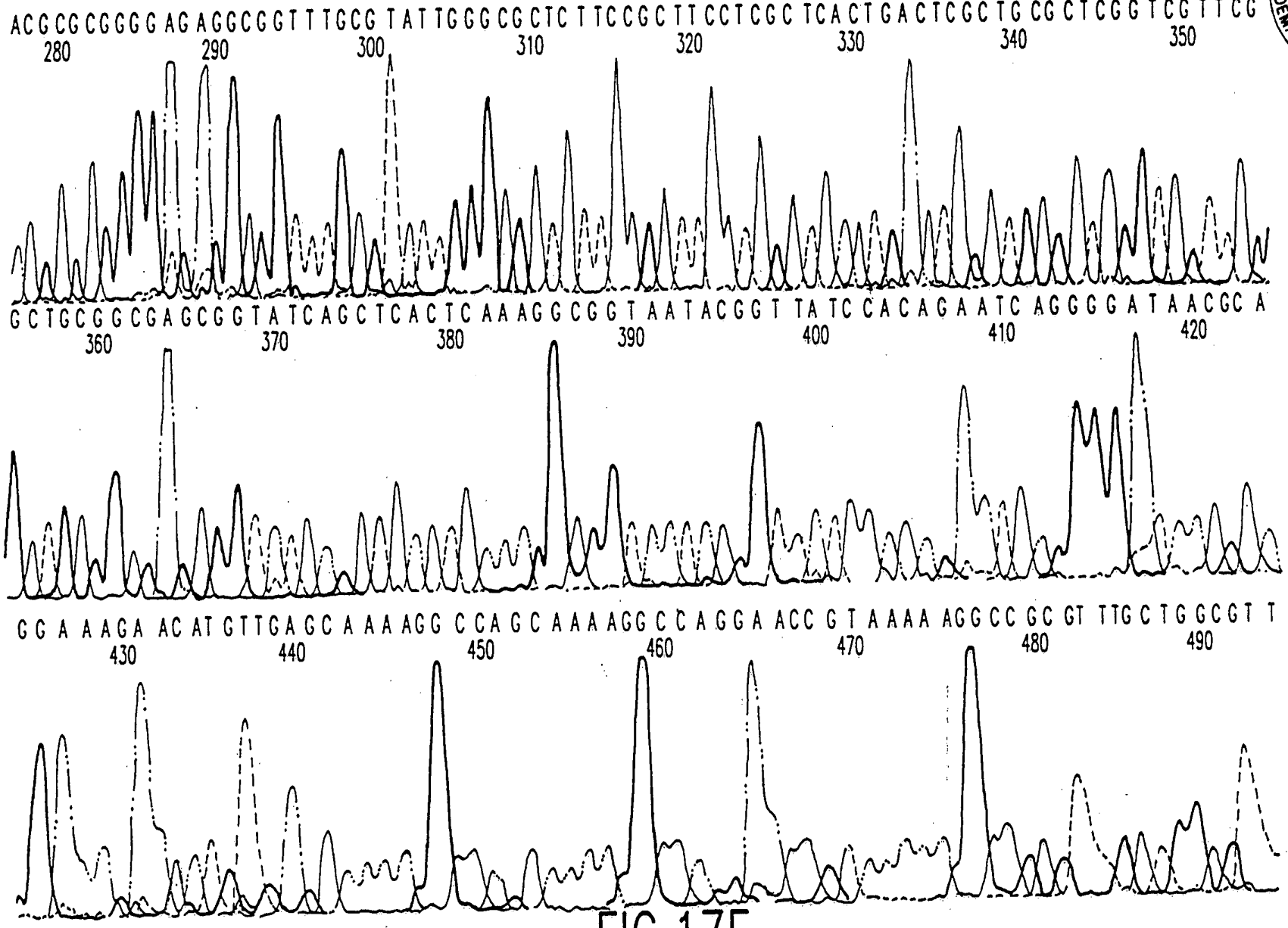


FIG.17E

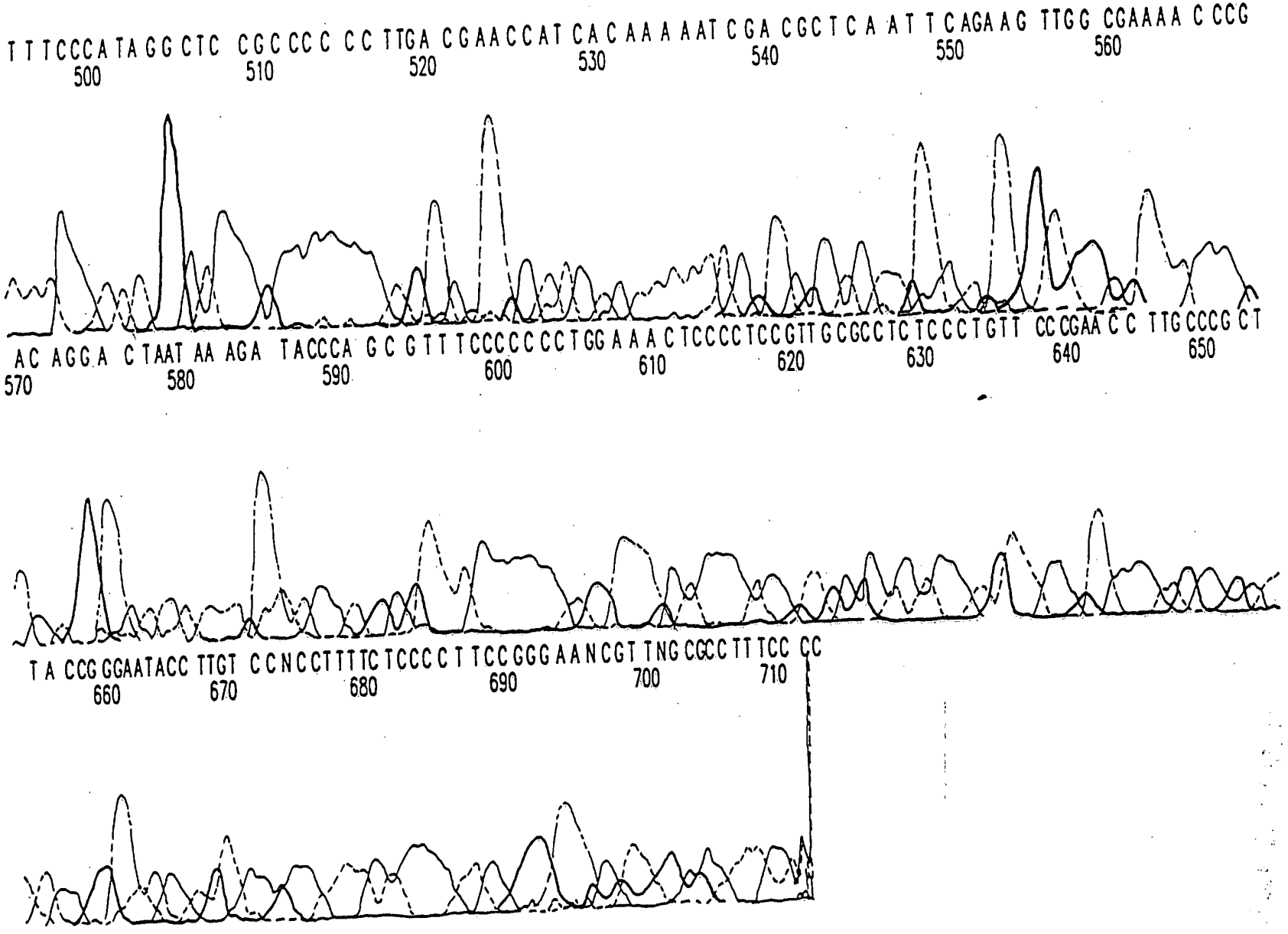


FIG.17F

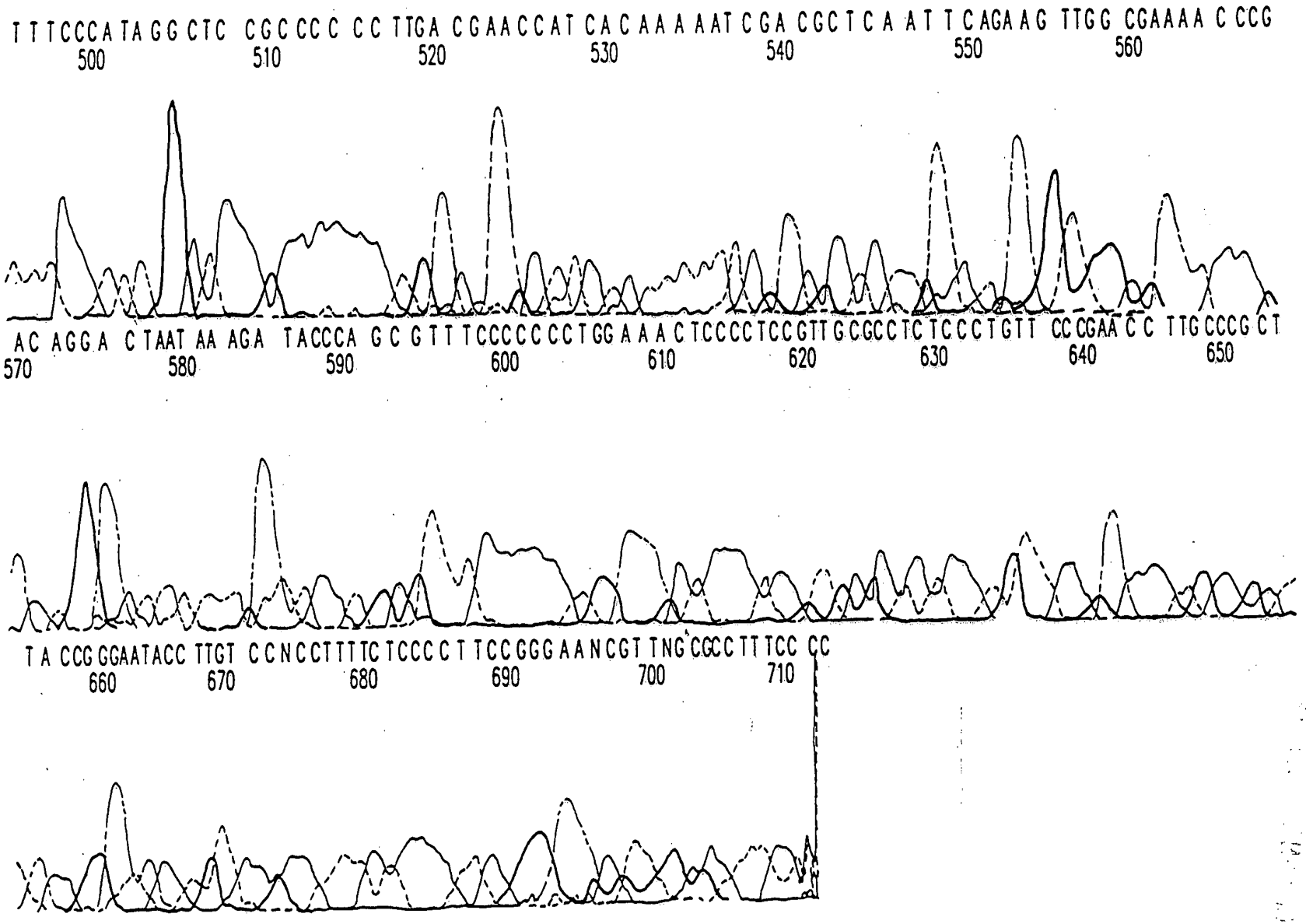


FIG.17F